

Valorization in public health genomics : a conceptual development from technology transfer to healthcare integration

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Propositions belonging to the dissertation

Valorization in Public Health Genomics
A Conceptual Development from Technology Transfer to Healthcare Integration

Jonathan A. Lal

12 November 2013, Maastricht

1. There seems to be a bottleneck in the real-time effective and efficient integration of genome-based technologies into personalized healthcare – Thesis.
2. By the time a new technology enters the healthcare, it becomes outdated as a newer technology presents itself on the market – Thesis.
3. Valorization in public health genomics is defined as the process of realization of relevant added value bioproducts in the domain of public health for the benefit of the populations and healthcare systems – Thesis.
4. The major component of the bottleneck is identified as the non-synergy between the academic-industrial complex and health policy decision making – Thesis.
5. Public Health Genomics is defined as the responsible and effective translation of genome-based knowledge and technologies into public policy and health services for the benefit of population health – Burke *et al.*, Genetics in Medicine 2006.
6. Bioproduct Design is the design of products based on or around the biological cell – TU Delft.
7. Nano-Liquid Chromatography Matrix-assisted Laser Desorption Ionization Mass Spectrometry has the issue of not having an automated synchronized program chain and the issue of evaporation and cross contamination during the filling of tiny wells – Adapted from TU Delft.
8. Yeast two-hybrid systems although quite popular among molecular biologists, has the possibility of a high number of false positives and false negatives – Adapted from Deane *et al.*, Molecular and Cellular Proteomics 2002.
9. First rule of business, protect your investment – Etiquette of the banker 1775.
10. People have the natural inability to understand each other – Project Management.
11. Gravity explains the motions of the planets, but it cannot explain who sets the planets in motion – Sir Isaac Newton.